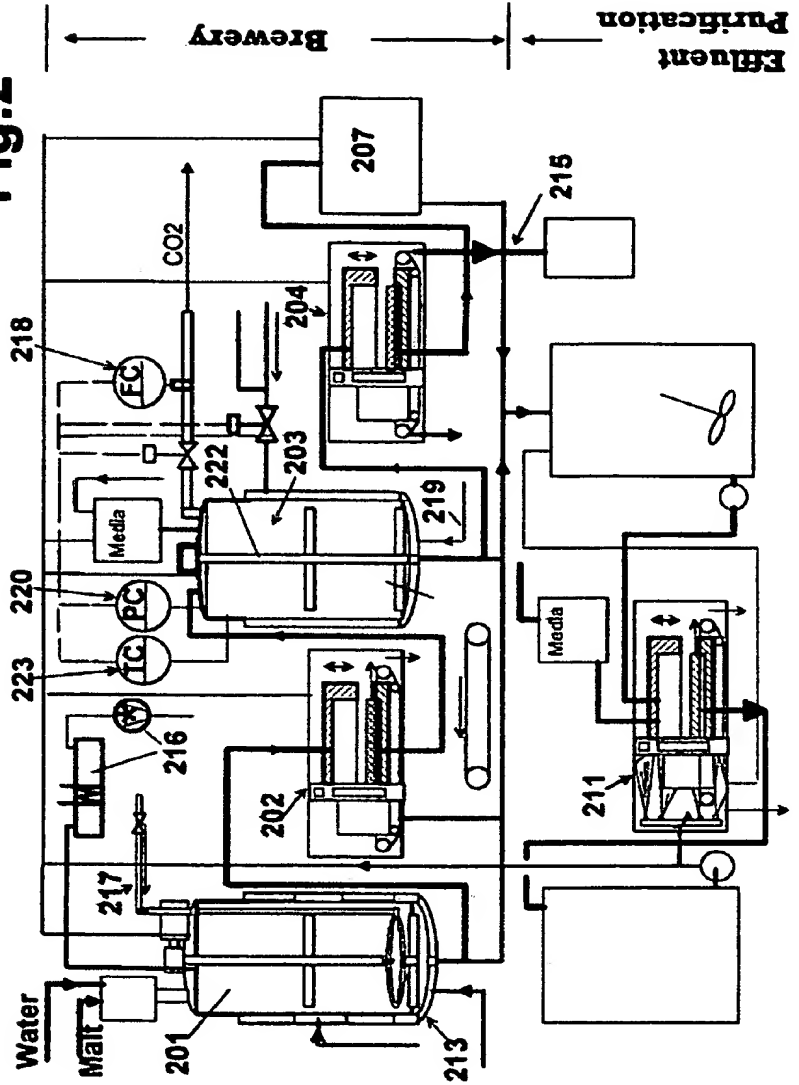


Fig.2





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Fig.3

Key to Fig.1

Conventional beer brewing process

- 101 mash tun
- 102 mash kettle
- 103 lauter tun
- 104 wort kettle
- 105 hops strainer
- 106 wort tank
- 107 centrifuge
- 108 cooler
- 109 fermenter
- 110 centrifuge
- 111 cooler
- 112 conditioner
- 113 centrifuge
- 114 filtration (sterile)
- 115 pasteurization
- 116 yeast filter
- 117 tank bottoms filter

Key to Fig.2

process of the invention

- 201 mash kettle
 - 202 mash filter
 - 203 fermenter
 - 204 beer filter
 - 207 bottling
 - 211 effluent filter
 - 213 mash kettle heat transfer jacket
 - 215 yeast cake discharge chute
 - 216 vacuum plant
 - 217 steam input
 - 218 CO₂ flow controller
 - 219 heating/cooling media nozzle
 - 220 pressure controller
 - 222 fermenter stirrer
 - 223 temperature controller
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